

## ABSTRACT

A method of determining the effect of an agent on a diploid cell and/or on an expression or activity of a polypeptide expressed within the diploid cell is provided. The method is effected by: (a) administering an exogenous RNA molecule encoding the polypeptide into the diploid cell; (b) contacting the diploid cell with the agent; and (c) monitoring a phenotype of the diploid cell and/or the expression or activity of the polypeptide within the diploid cell, thereby determining the effect of the agent on the diploid cell and/or on the expression or activity of the polypeptide expressed within the diploid cell.